

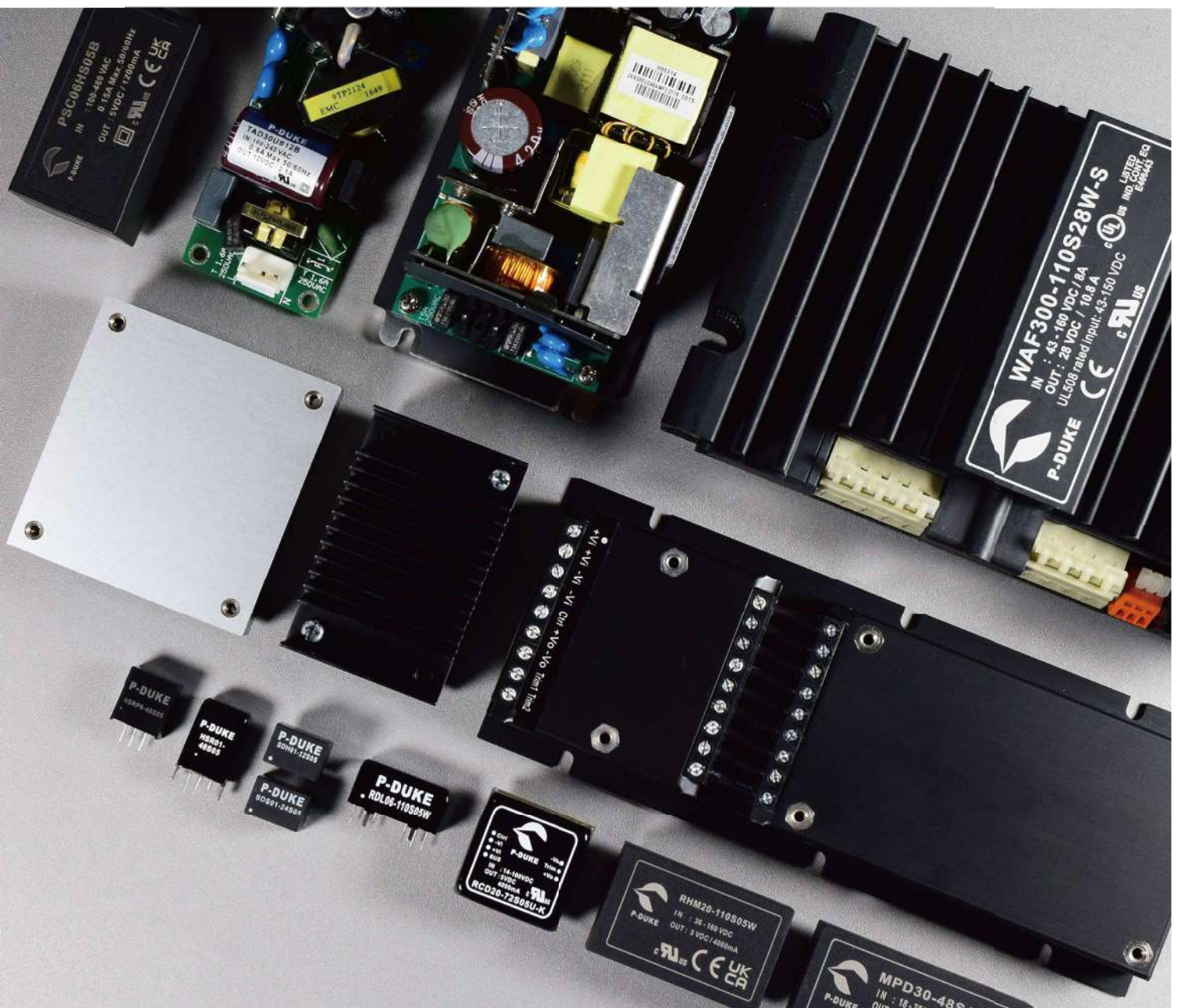


P-DUKE
POWER

AC/DC Power Supplies DC/DC Converters

Product Portfolio

Innovative Power for your Visions.



COMPANY PROFILE

Expanding Your Vision Leading Your Future

P-DUKE is a Taiwan based company founded in 1992, that is fully committed to research & development and the production of high-performance power conversion products. P-DUKE offers a broad range of DC/DC converters, AC/DC power supplies as well as custom power conversion solutions. With the main focus on both railway and medical markets, where the highest product quality and compliance to all relative application standards is required, P-DUKE's main business is in Europe, America and Asia Pacific.

Powering The World The Innovator of Power Solutions

Accumulating over 30 years experience in the power conversion field has allowed P-DUKE to become the leading manufacturer in the low-power conversion market. The company has a strong technical team that provides prompt and professional support in power relevant system design issues which are, for example, choosing optimal power solutions or suggestions for EMI circuits, etc.

Subsidiary Company California, USA



World Headquarters Taichung, Taiwan

Capital:	US\$ 25,000,000
Employee:	270
Main Business:	AC/DC Power Supplies DC/DC Converters Customized Solutions *Modifications & Extensions



Wuxi, China

Area:	40,000 square meters
Capacity:	530k pcs transformers/M 1,200k pcs inductors/M
Employee:	280
Production Line:	45



1992

POWER MATE Technology Co., Ltd. was founded



2005

Investigation and developing customized products for railway applications

2010

Developing and launch new standard ruggedized products dedicated for railway applications



2012

Developing and launch new state of the art AC/DC and DC/DC standard products dedicated for medical applications



2016

Company name was changed to P-DUKE Technology Co., Ltd.



2021

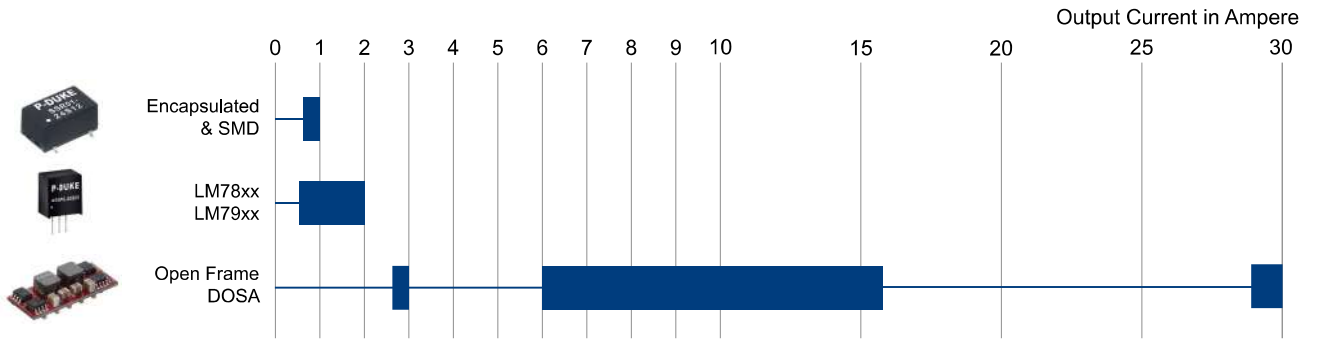
Construction work on the new extension building begun

Various Applications in the High-tech Industry Exploring any Possibilities in each Application Field

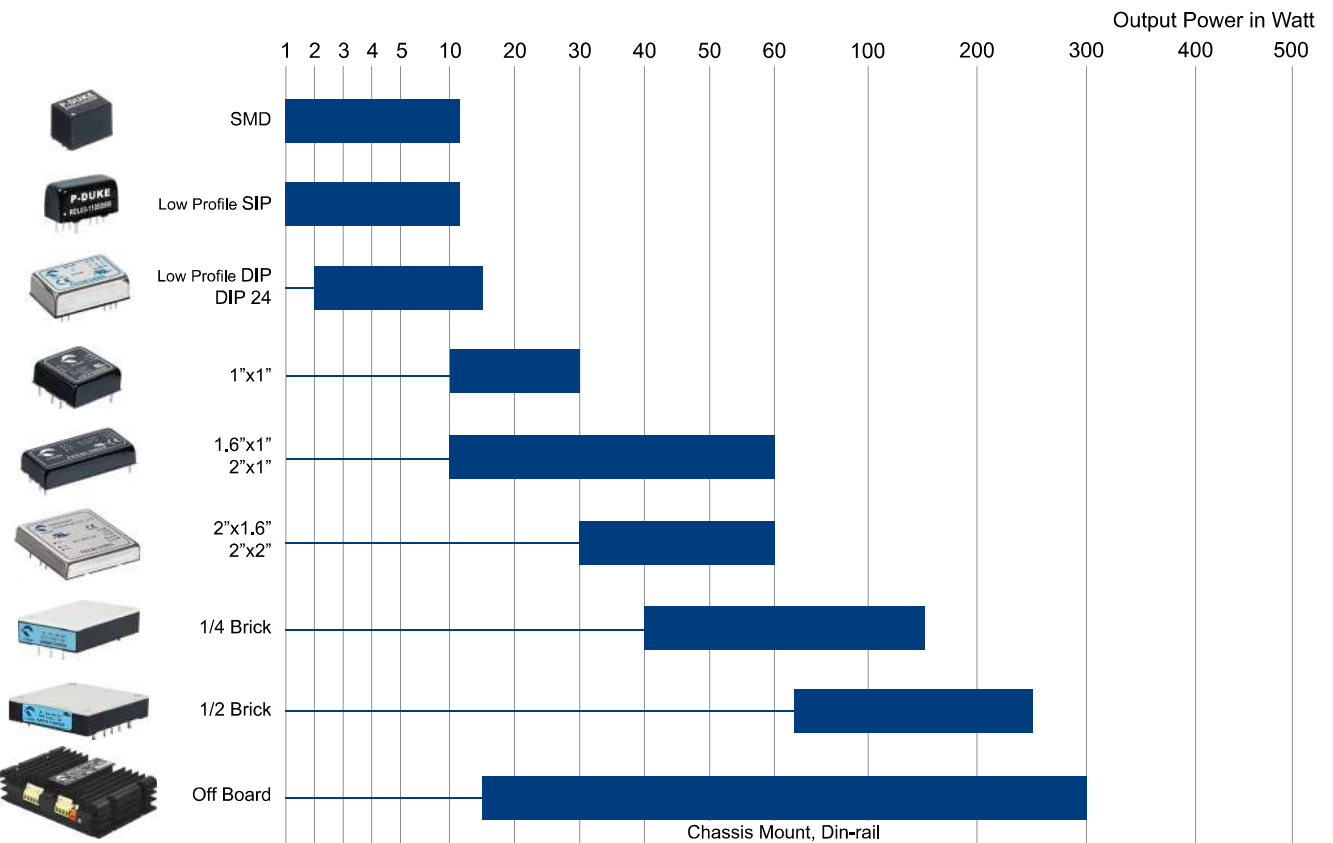
We are experts in reliable and highly efficient power converter solutions with best thermal management. We continuously explore the possibilities and opportunities to cooperate with our valued customers. Providing the best power converter solutions to our customer's applications with years of experiences and know-how. We always view our customer's requirements and our product quality as our first priority. To fulfil the requirements of any application, we have certified our products to the latest international safety and EMI/EMC standards and their relevant approvals.



Non-isolated DC/DC Converters



Isolated DC/DC Converters



AC/DC Power Supplies



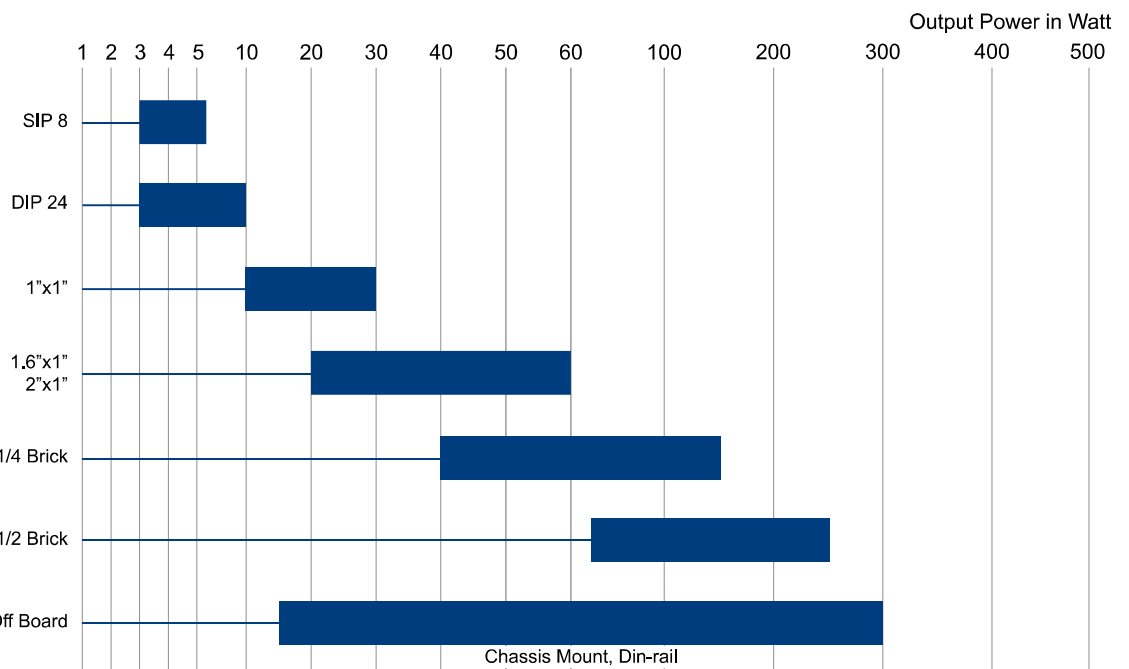
*JST, Molex, and screw terminal block are available for AC/DC, please see datasheet for further information.

RAILWAY



IEC 62368-1 | EN 50155 : 2017 | EN 45545-2 | EN 61373

Isolated DC/DC Converters

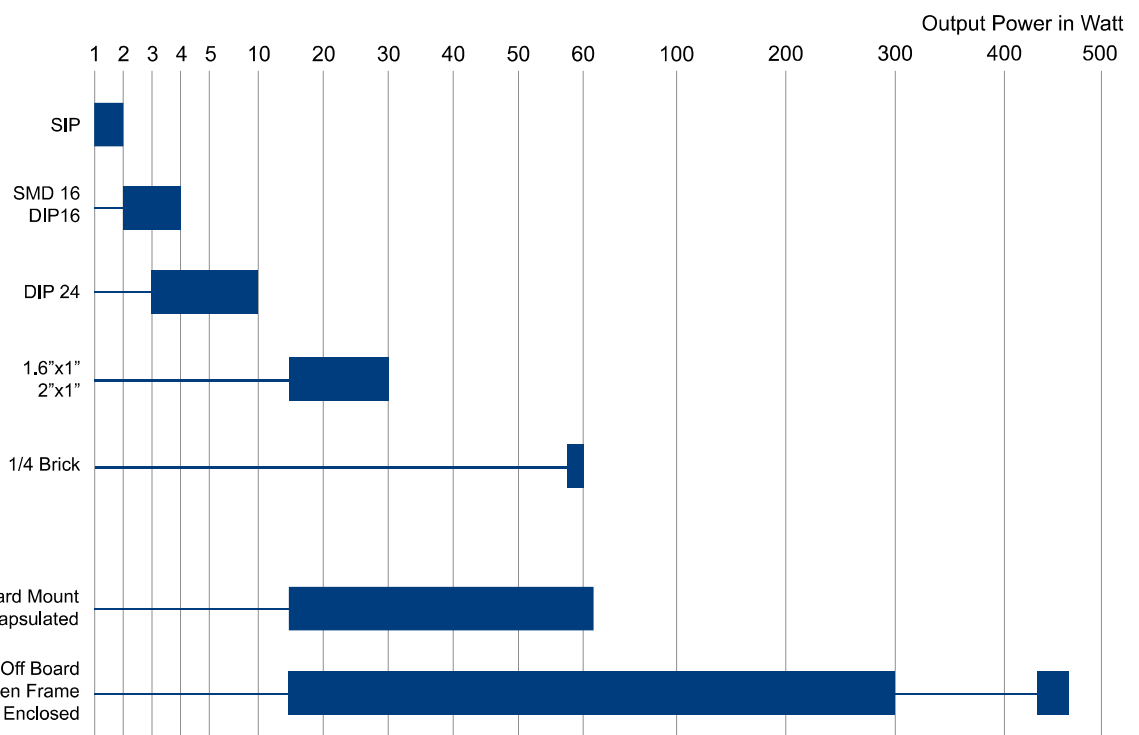


MEDICAL



IEC 62368-1 | IEC 60601-1 Edition 3.1 | IEC 60601-1-2 4th Edition | ISO 13485 | ISO 14971

Isolated DC/DC Converters



AC/DC Power Supplies

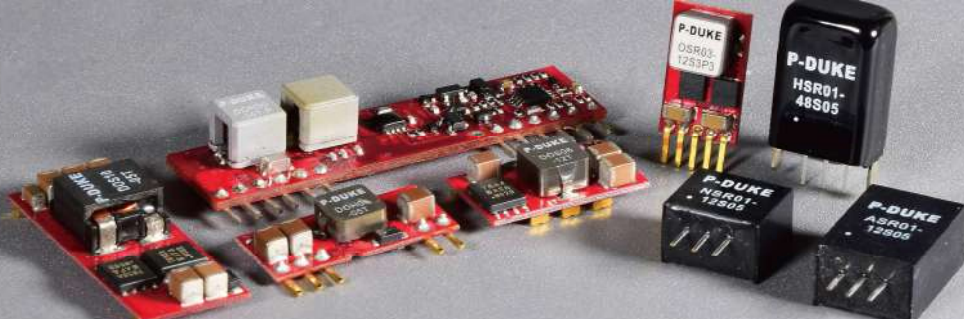


*JST, Molex, and screw terminal block are available for AC/DC, please see datasheet for further information.



Series	Open Frame Enclosed Encapsulated	Pin Connection Type	Output Power (W)		Input Voltage (VAC)	Single Output Dual Output Triple Output	Output Voltage												Eff. (%)	OCV III	Isolation Voltage (VAC)	Dimensions (Inch)			
			Con.	Peak			3.3 Vout	5.0 Vout	7.5 Vout	9.0 Vout	12 Vout	15 Vout	18 Vout	24 Vout	28 Vout	36 Vout	48 Vout	53 Vout				54 Vout	L	W	H
PSC06		● ●	6		85 – 530	●		●			●	●		●						75	●	4000	2.07	1.08	0.91
TSC15		● ●	15			●		●	●	●	●	●	●	●	●	●	●	●	●	89			2.82	1.14	0.82
TSD30		● ●	30		85 – 264	●		●	●	●	●	●	●	●	●	●	●	●	91.5		3000	3.95	1.50	1.00	
TSD30-P		● ●	30	40		●		●	●	●	●	●	●	●	●	●	●	●	91.5			3.95	1.50	1.00	
TSD40		● ●	40			●		●	●	●	●	●	●	●	●	●	●	●	93	●		4.30	2.20	1.20	
TSD65		● ●	65			●		●	●	●	●	●	●	●	●	●	●	●	93.5	●		4.30	2.20	1.20	
TAC15	●		15			●		●	●	●	●	●	●	●	●	●	●	●	89			2.61	1.00	0.62	
TAD30	●		30			●		●	●	●	●	●	●	●	●	●	●	●	91.5			3.34	1.36	0.77	
TAD30-P	●		30	40		●		●	●	●	●	●	●	●	●	●	●	●	91.5			3.34	1.36	0.77	
TAD40 Single	● ●		40			●		●	●	●	●	●	●	●	●	●	●	●	93	●		3.00	2.00	0.94	
TAD65 Single	● ●		65			●		●	●	●	●	●	●	●	●	●	●	●	93.5	●		3.00	2.00	0.94	
TAD65-P	● ●		65	90		●		●	●	●	●	●	●	●	●	●	●	●	93.5	●		3.00	2.00	0.94	
TAD40 Multi	● ●		40				● ●	●	●			●	●			●	●		90	●		3.50	2.00	0.98	
TAD65 Multi	● ●		65				● ●	●	●			●	●			●	●		90.5	●		3.50	2.00	0.98	
TAD50	●		50	70		●		●	●	●	●	●	●	●		●	●	●	92.5	●		3.00	1.50	1.18	
TAD100	● ●		100			●						●	●			●	●	●	92	●		3.00	2.00	1.16	
TAD125	● ●		125	150		●						●	●			●	●	●	92	●		3.00	2.00	1.16	
TAF150	● ●		150			●						●	●			●	●	●	92	●		4.00	2.00	1.16	
TAD180	● ●		180	220		●						●	●	●	●	●	●	●	94	●		3.00	2.00	1.24	
TAF300	● ●		300	360		●						●	●	●	●	●	●	●	93	●		4.00	2.09	1.26	
TAH450	● ●		450			●						●	●			●	●	●	94			5.00	3.00	1.58	
TBF500		● ●	500			●						●				●	●		93	●		4.60	2.40	0.50	

NON-ISOLATED DC/DC CONVERTERS



Series	Open Frame Encapsulated SMD Type Thru-hole Type	Output Current (A)	Input Voltage (VDC)	Negative Vout Available	Output Voltage																Eff. (%)	Isolation Voltage	Dimensions (Inch)		
					1.2 Vout	1.5 Vout	1.8 Vout	2.5 Vout	3.0 Vout	3.3 Vout	5.0 Vout	5.2 Vout	6.0 Vout	6.5 Vout	8.0 Vout	9.0 Vout	12 Vout	15 Vout	24 Vout	L			W	H	
HSRP6	● ●	0.6	9 – 72							● ●		●		● ● ● ● ●	94	None	0.47	0.34	0.53						
HSR01	● ●	1	9 – 72							● ●		●		● ● ● ● ●	93		0.48	0.34	0.69						
ASR01	● ●	1	-7 – -32		○						○ ○		○ ○ ○ ○	96	0.46		0.30	0.65							
NSR01	● ●	1	4.6 – 36	●	● ● ● ● ● ● ● ●						●		● ● ● ● ●	95.5	0.46		0.30	0.40							
PSR1.0	● ●	1	4.6 – 36		● ● ● ● ● ● ● ●					● ●		●		● ● ● ● ●	96		0.46	0.30	0.40						
LSR01	● ●	1	3.0 – 36		● ● ● ● ● ● ● ●					● ●		●		● ● ● ● ●	96		0.60	0.37	0.30						
SSR01	● ●	1	3.0 – 36	●			●			● ●				● ● ● ● ●	95.5		0.60	0.37	0.30						
PSR02	● ●	2	3.0 – 36		● ● ● ● ● ● ● ●					● ●		●		● ● ● ● ●	96		0.55	0.30	0.40						
OSR03	● ●	3	2.5 – 30	●										0.59 – 15 VDC	95		0.37	0.24	0.61						
DOS/H06	● ● ● ●	6	2.4 – 5.5 8.3 – 14											0.75 – 5.0 VDC	94		0.80	0.45	0.25						
DOS/H10	● ● ● ●	10													0.75 – 5.0 VDC		95	1.30	0.53	0.30					
DOS/H16	● ● ● ●	16													0.75 – 5.0 VDC		95	1.30	0.53	0.30					
DOS/H30	● ● ● ●	30													0.8 – 5.5 VDC	93	1.30	0.53	0.31						

○ : Negative Output Voltage

DC/DC FRONT-END FILTERS



Series	Surge Protection EMI Filter	Footprint	Output Power (W)	Vnom (VDC)	Input Voltage (VDC)	Max. Transient Voltage	Clamp Voltage (VDC)	Standard	Dimensions (Inch)		
									L	W	H
SSM-110P50-001	●	DIP-24	20	110	43 – 160	385 V / 20 ms	168	RIA 12 Surge Susceptibility NF F 01-510	1.25	0.80	0.40
SSM-110004-001	●	1.6"x1"	150	110	43 – 160				1.60	1.00	0.40
SSM-110008-001	●		300	110	43 – 160				1.60	1.00	0.40
MCF-028005-001	● ●	1.6"x1"	45	28	9 – 36	100 V / 50 ms	40	RIA 12 Surge Susceptibility NF F 01-510 MIL-STD 1275D MIL-STD 461G	1.60	1.00	0.40
MCF-028015-001	● ●	1/4 Brick	250	28	9 – 36				2.28	1.45	0.50



SMALL SIZE & LOW PROFILE PACKAGE

Series	Footprint	Output Power (W)	Input Ratio			Input Voltage (VDC)	Single Output	Dual Output	Triple Output	Output Voltage													Eff. (%)	Isolation Voltage	Dimensions (Inch)		
			12:1/8:1	4:1	2:1					3.3 Vout	5.0 Vout	5.1 Vout	9.0 Vout	12 Vout	15 Vout	24 Vout	48 Vout	53 Vout	±5 Vout	±12 Vout	±15 Vout	±24 Vout			L	W	H
EUR01	SIP-4	1				3.3, 5, 12, 15, 24	●			●	●		●	●	●	●							81	3000 VDC 1000 VDC	0.45	0.24	0.39
DU1P0	SIP-7	1				5, 12, 15, 24	●	●			●			●	●				●	●	●		82	3000 VDC 1000 VDC	0.77	0.24	0.40
UDS01 UDH01	SMD-7 SIP-5	1		●		4.5 – 13.2	●	●		●	●		●	●	●	●			●	●	●		83	1600 VDC	0.47	0.44	0.31
UDS02 UDH02		2		●		9 – 18 18 – 36	●	●		●	●		●	●	●	●			●	●	●		84				
UDS03 UDH03		3		●		36 – 75	●	●		●	●		●	●	●	●			●	●	●		84				
SDS01 SDH01	SMD-8 DIP-8	1		●		4.5 – 9 9 – 18	●	●		●	●		●	●	●	●			●	●	●		83	3000 VDC 1600 VDC	0.52	0.36	0.40
SDS02 SDH02		2		●		18 – 36 36 – 75	●	●		●	●		●	●	●	●			●	●	●		86				
SDS05 SDH05		5		●		4.5 – 13.2 9 – 18 18 – 36 36 – 75	●	●		●	●		●	●	●	●			●	●	●		86				
SDS01W SDH01W		1		●		4.5 – 18 9 – 36 18 – 75	●	●		●	●		●	●	●	●			●	●	●		81				
SDS02W SDH02W		2		●			●	●		●	●		●	●	●	●			●	●	●		84				
SDS03W SDH03W		3		●			●	●		●	●		●	●	●	●			●	●	●		84				
SDS05W SDH05W		5		●			●	●		●	●		●	●	●	●			●	●	●		84				
PDS02 PDH02	SMD-14 DIP-14	2		●		4.5 – 9 9 – 18	●	●		●	●		●	●	●				●	●	●		84	3000 VDC 1600 VDC	0.74	0.50	0.34
PDS03 PDH03		3		●		18 – 36 36 – 75	●	●		●	●		●	●	●				●	●	●		83				
PDS02W PDH02W		2		●		4.5 – 18 9 – 36	●	●		●	●		●	●	●				●	●	●		82				
PDS03W PDH03W		3		●		18 – 75	●	●		●	●		●	●	●				●	●	●		83				



SIP-8

Series	Footprint	Output Power (W)	Input Ratio		Input Voltage (VDC)	Single Output	Dual Output	Triple Output	Output Voltage														Eff. (%)	Isolation Voltage	Dimensions (Inch)			
			12:1/ 8:1	4:1					2:1	3.3 Vout	5.0 Vout	5.1 Vout	9.0 Vout	12 Vout	15 Vout	24 Vout	48 Vout	53 Vout	±5 Vout	±12 Vout	±15 Vout	±24 Vout			L	W	H	
EDL02	SIP-8	2		●	4.5 – 13.2 9 – 18	●	●		●	●		●	●	●	●			●	●	●	86	1600 VDC	0.86 0.36 0.44					
EDL03		3		●	18 – 36 36 – 75	●	●		●	●		●	●	●	●			●	●	●	86							
EDL02W		2	●		4.5 – 18 9 – 36	●	●		●	●		●	●	●	●			●	●	●	82							
EDL03W		3	●		18 – 75	●	●		●	●		●	●	●	●			●	●	●	83							
LDL03		3		●	4.5 – 13.2 9 – 18 18 – 36 36 – 75	●	●		●	●		●	●	●	●			●	●	●	85	1600 VDC						
PDL02		2		●	4.5 – 9 9 – 18	●	●		●	●		●	●	●				●	●	●	84	3000 VDC 1600 VDC						
PDL03		3		●	18 – 36 36 – 75	●	●		●	●		●	●	●				●	●	●	85							
PDL06		6		●	36 – 75	●	●		●	●		●	●	●	●				●	●	●	86						
PDL09		9		●	9 – 18 18 – 36 36 – 75	●	●		●	●		●	●	●	●				●	●	●	90					1600 VDC	
PDL03W		3	●		4.5 – 18 9 – 36 18 – 75	●	●		●	●		●	●	●				●	●	●	82	3000 VDC 1600 VDC						
PDL06W		6	●		9 – 36 18 – 75	●	●		●	●		●	●	●	●				●	●	●	88					3000 VDC 1600 VDC	
PDL09W		9	●			●	●		●	●		●	●	●	●				●	●	●	89					1600 VDC	
PDL12W		12	●		4.5 – 18 9 – 36 18 – 75	●	●		●	●	●	●	●	●	●				●	●	●	90	1600 VDC	0.86 0.38 0.44				
RDL03W		3	●		9 – 36 18 – 75	●	●		●	●		●	●	●	●				●	●	●	83	3000 VDC					
RDL06W		6	●		43 – 160	●	●		●	●		●	●	●	●				●	●	●	88						





SMD-24 | DIP-24 | 1"x1"



Series	Footprint	Output Power (w)	Input Ratio			Input Voltage (VDC)	Single Output	Dual Output	Triple Output	Output Voltage												Eff. (%)	Isolation Voltage	Dimensions (Inch)		
			12:1/8:1	4:1	2:1					2.5 Vout	3.3 Vout	5.0 Vout	5.1 Vout	9.0 Vout	12 Vout	15 Vout	24 Vout	53 Vout	±5 Vout	±12 Vout	±15 Vout			±24 Vout	L	W
FKC03	DIP-24 SMD-24	3		●	9 – 18 18 – 36 36 – 75	●	●			●	●			●	●			●	●	●	82	1600 VDC	1.25	0.80	0.40	
FKC05		5		●		●	●			●	●			●	●	●	●	84								
FKC08		8		●		●			●	●			●	●	●	●	88									
FKC12		12		●		●	●		●	●			●	●	●	●	88									
FKC15		15		●		●			●		●	●		●	●	●	91									
FKC05W		5	●		9 – 36 18 – 75	●	●			●	●			●	●	●	84									
FKC08W		8	●		9 – 36 18 – 75 43 – 160	●	●			●	●			●	●	●	88									
FKC12W		12	●		9 – 36 18 – 75	●	●			●		●		●	●	●	88									
FKC15W		15	●			●		●		●	●		●	●	●	90										
LKC05W	DIP-24	5	●		4.5 – 12 9 – 36 18 – 75	●	●			●	●		●	●	●	●	89	3000 VAC								
RHK03W		3	●		36 – 160	●	●			●	●		●	●	●	85										
RHK06W		6	●			●	●			●	●		●	●	●	86.5										
RHK10W		10	●			●	●			●	●	●		●	●	●	88									
LCD10	1"x1"	10		●	9 – 18 18 – 36 36 – 75	●	●			●	●			●	●			●	●	●	91	1600 VDC	1.00	1.00	0.39	
LCD15		15		●		●			●	●			●	●	●	●	91									
LCD20		20		●		●			●	●			●	●	●	●	92									
LCD30		30		●		●			●	●			●	●	●	93										
LCD10W		10	●		9 – 36 18 – 75	●	●			●	●			●	●	●	91									
LCD15W		15	●			●	●			●	●			●	●	●	91									
LCD20W		20	●			●	●			●	●			●	●	●	91									
LCD30W		30	●			●	●			●	●			●	●	●	92									
RCD15		15		●		9 – 18 18 – 36 36 – 75	●	●			●	●			●	●	●	91	3000 VDC 1600 VDC							
RCD10W		10	●		9 – 36 18 – 75 36 – 160	●	●			●	●			●	●	●	90	3000 VDC								
RCD15W		15	●			●	●			●	●			●	●	●	91									
RCD20W		20	●			●	●			●	●	●			●	●	●	91	3000 VDC							
RCD30W		30	●			●	●			●	●	●			●	●	●	92	2250 VDC							
RCD20U		20	●			9 – 75 14 – 160	●	●			●	●			●	●		88	3000 VDC							
LED15			15		●		18 – 36 36 – 75	●							●	●		88	2250 VDC	1.10	0.94	0.33				
LED15W	15	●			9 – 36 18 – 75	●				●	●					87										



1.6"x1" | 2"x1" | 2"x1.6" | 2"x2"

	Series	Footprint	Output Power (W)	Input Ratio 12:1/ 8:1 4:1 2:1	Input Voltage (VDC)	Single Output Dual Output Triple Output	Output Voltage																		Dimensions (Inch)			
							1.5 Vout	1.8 Vout	2.5 Vout	3.3 Vout	5.0 Vout	5.1 Vout	12 Vout	15 Vout	24 Vout	48 Vout	53 Vout	±5 Vout	±12 Vout	±15 Vout	±24 Vout	Eff. (%)	Isolation Voltage	L	W	H		
	RHM20W	1.6"x1"	20	●	36 – 160	● ●					● ● ● ● ●							● ● ● ●				90.5	3000 VAC	1.60	1.00	0.40		
	FDC10	2"x1"	10	●	9 – 18 18 – 36 36 – 75	● ●				● ●			● ●					● ● ● ●				87	1600 VDC	2.00	1.00	0.40		
	FEC15		15	●		● ●				● ●			● ● ● ● ●					● ● ● ●				88						
	FED20		20	●		● ●	● ● ● ● ●				● ●		● ● ● ● ●					● ● ● ●				89						
	FED30		30	●		● ●	● ● ● ● ●	● ● ● ● ●			● ● ● ● ●		● ● ● ● ●					● ● ● ●				91						
	EED40		40	●		● ●				● ●			● ● ● ● ●					● ● ● ●	● ● ● ●			93						
	FED60		60	●		● ●				● ●			● ● ● ● ●					● ● ● ●	● ● ● ●			92						
	FDC10W		10	●	9 – 36 18 – 75	● ●				● ●			● ● ● ● ●					● ● ● ●				84						
	FEC15W		15	●		● ●				● ●			● ● ● ● ●					● ● ● ●				88						
	FED20W		20	●		● ●				● ●			● ● ● ● ●					● ● ● ●				89						
	FED30W		30	●		● ●	● ● ● ● ●	● ● ● ● ●			● ● ● ● ●		● ● ● ● ●					● ● ● ●				91						
	FED30TW		30	●		● ●		●			● ●							● ● ● ●				88						
	EED40W		40	●		● ●				● ●			● ● ● ● ●					● ● ● ●	● ● ● ●			93						
	FED60W		60	●		● ●				● ●			● ● ● ● ●					● ● ● ●	● ● ● ●			92						
	RED20W	2"x1.6"	20	●	9 – 36 18 – 75 43 – 160	● ●				● ●			● ●						● ● ● ●				89	2250 VDC	3000 VDC	2.00	1.60	0.40
	RED40W		40	●	9 – 36 18 – 75	● ●				● ●			● ● ● ● ●					● ● ● ●				93						
RED60W	60		●	36 – 160	● ●				● ●			● ● ● ● ●					● ● ● ●				94							
RHD40W	40		●	36 – 160	● ●				● ●			● ● ● ● ●					● ● ● ●				90	3000 VAC						
RED40U	40		●	9 – 75 14 – 160	● ●				● ●			● ● ● ● ●					● ● ● ●				90	3000 VDC						
	FEC30	2"x1.6"	30	●	9 – 18 18 – 36 36 – 75	● ●	● ● ● ● ●				● ●		● ● ● ● ●					● ● ● ●				90	1600 VDC	2.00	1.60	0.40		
	FEC30W		30	●	10 – 40 18 – 75	● ●	● ● ● ● ●				● ●		● ● ● ● ●					● ● ● ●				88						
	FEC40	2"x2"	40	●	9 – 18 18 – 36 36 – 75	● ● ● ●	● ● ● ● ●				● ●		● ● ● ● ●					● ● ● ●				90		2.00	2.00	0.40		
	FEC40W		40	●	9 – 36 18 – 75	● ●				● ●			● ● ● ● ●					● ● ● ●				89						
	FEC60		60	●	18 – 36 36 – 75	●				● ●			● ● ● ● ●					● ● ● ●				91						



Quarter Brick | Half Brick

	Series	Footprint	Output Power (W)	Input Ratio			Input Voltage (VDC)	Single Output	Dual Output	Triple Output	Output Voltage												Eff. (%)	Isolation Voltage	Dimensions (Inch)			
				12:1/ 8:1	4:1	2:1					3.3 Vout	5.0 Vout	5.1 Vout	12 Vout	15 Vout	24 Vout	28 Vout	30 Vout	48 Vout	53 Vout	±5 Vout	±12 Vout			±15 Vout	±24 Vout	L	W
	QAE40U	1/4 Brick	40	●			9 – 75 14 – 160	●			●		●	●	●	●		●	●				91	3000 VAC 2250 VDC	2.28	1.45	0.50	
	QAE60U		60	●				●			●		●	●	●	●		●	●				91					
	QAE100U		100	●				●			●		●	●	●	●		●	●				90					
	QAE100		108		●		8.5 – 22 16.5 – 36	●			●	●		●	●	●		●	●				93	2250 VDC				
	QAE150		150			●	33 – 75	●			●	●		●	●	●		●	●				92					
	QAE100W		90		●		8.5 – 36 16.5 – 75	●			●	●		●	●	●		●	●				90	3000 VAC 2250 VDC				
	QAE150W		132		●		40 – 160	●			●	●		●	●	●		●	●				90					
	HAE100	1/2 Brick	100			●	9 – 18 18 – 36 36 – 75	●			●	●		●	●	●	●		●				93	3000 VDC	2.40	2.28	0.50	
	HAE150		196			●	8.5 – 22 16.5 – 36	●			●	●		●	●	●	●		●	●			93					
	HAE200		255			●	33 – 75	●			●	●		●	●	●	●		●	●			93					
	HAE75W		75		●		9 – 36 18 – 75 43 – 160	●			●	●		●	●	●	●		●				91	3000 VAC 3000 VDC				
	HAE100W		100		●		8.5 – 36 16.5 – 75 43 – 160	●			●	●		●	●	●	●		●				93					
	HAE150W		182		●			●			●	●		●	●	●	●		●									91
	HAE200W		240		●			●			●	●		●	●	●	●		●									91
	HAE150U		150		●		16 – 160	●			●			●	●	●	●		●	●				93				3000 VAC
	HAE200U		200		●			●			●			●	●	●	●		●	●				93				



	Series	Footprint	Output Power (W)	Input Ratio			Input Voltage (VDC)	Single Output	Dual Output	Triple Output	Output Voltage														Eff. (%)	Isolation Voltage	Dimensions (Inch)		
				12:1/ 8:1	4:1	2:1					3.3 Vout	5.0 Vout	5.1 Vout	12 Vout	15 Vout	24 Vout	28 Vout	30 Vout	48 Vout	53 Vout	±5 Vout	±12 Vout	±15 Vout	±24 Vout			L	W	H
	UFED20	*Chassis Din-rail	20		●	9.5 – 18 18 – 36 36 – 75	●	●		●	●		●	●							●	●	88	1600 VDC	4.00	2.25	0.75		
	UFEC30		30		●		●	●	●	●	●	●	●	●	●	●	●	●	●	89									
	UFEC40		40		●		●	●	●	●	●	●	●	●	●	●	●	●	89										
	UFEC60		60		●	18 – 36 36 – 75	●	●	●	●	●	●	●	●	●	●	89												
	UFEC15W		15	●	9.5 – 36	●	●	●	●	●	●	●	●	●	●	●	87												
	UFED20W		20	●	18 – 75	●	●	●	●	●	●	●	●	●	●	88													
	URED20W		20	●	9 – 36 18 – 75 43 – 160	●	●		●	●		●	●							●	●	88	2250 VDC						
	UFEC30W		30	●	10 – 40 18 – 75	●	●		●	●		●	●	●	●					●	●	87	1600 VDC						
	UFED40W		40	●	9.5 – 36 18 – 75 43 – 160	●	●		●	●		●	●	●					●	●	●	91	3000 VDC 1600 VDC						
	UFEC40W		40	●	9.5 – 36 18 – 75	●	●		●	●		●	●	●	●					●	●	88	1600 VDC						
	HAE100-T	*Chassis	100		●	9 – 18 18 – 36 36 – 75	●			●	●		●	●	●	●			●				93	3000 VDC	3.35	2.40	1.59		
	HAE150-T		196		●	8.5 – 22 16.5 – 36	●			●	●		●	●	●	●			●	●			93						
	HAE200-T		255		●	33 – 75	●			●	●		●	●	●	●			●	●			93						
	HAE75W-T		75	●	9 – 36 18 – 75 43 – 160	●			●	●		●	●	●	●			●					91	3000 VAC 3000 VDC					
	HAE100W-T		100	●	8.5 – 36	●			●	●		●	●	●	●			●					93						
	HAE150W-T		182	●	16.5 – 75 43 – 160	●			●	●		●	●	●	●			●					91						
	HAE200W-T		240	●		●			●	●		●	●	●	●			●					91						
	WAF150W	*Chassis	150	●	9 – 36 18 – 75 43 – 160	●						●	●	●	●			●				89	3000 VDC 2250 VDC	3.86	2.56	0.67			
	WAF300W	*Chassis Din-rail	200	●	18 – 75 43 – 160	●						●	●	●	●			●				92	3000 VAC	6.00	4.00	1.52			

*Chassis: Chassis mount

Series	Footprint	Output Power (W)	Input Ratio			Input Voltage (VDC)	Single Output	Dual Output	Output Voltage																Eff. (%)	Isolation Voltage	Dimensions (Inch)		
			12:1/8:1	4:1	2:1				3.3 Vout	5.0 Vout	5.1 Vout	9.0 Vout	12 Vout	15 Vout	24 Vout	28 Vout	30 Vout	48 Vout	53 Vout	±5 Vout	±12 Vout	±15 Vout	±24 Vout	L			W	H	
RDL03W	SIP-8	3	●			9 – 36 18 – 75 43 – 160	● ●	● ●	● ●		● ●	● ●	● ●						● ●	● ●	● ●		83	3000 VDC	0.86	0.36	0.44		
RDL06W		6	●				● ●	● ●	● ●		● ●	● ●	● ●							● ●	● ●	● ●						87	
FKC08W	DIP-24	8	●					● ●	● ●	● ●			● ●	● ●						● ●	● ●	● ●		88	1600 VDC	1.25	0.80	0.40	
RHK03W		3	●				● ●	● ●	● ●			● ●	● ●	● ●					● ●	● ●	● ●		85	3000 VAC					
RHK06W		6	●			36 – 160	● ●	● ●	● ●			● ●	● ●	● ●					● ●	● ●	● ●		86.5						
RHK10W		10	●				● ●	● ●	● ●	● ●			● ●	● ●	● ●					● ●	● ●	● ●			88				
RCD10W	1"x1"	10	●			9 – 36 18 – 75 36 – 160	● ●	● ●	● ●			● ●	● ●	● ●					● ●	● ●	● ●	● ●	90	3000 VDC	1.00	1.00	0.39		
RCD15W		15	●				● ●	● ●	● ●			● ●	● ●	● ●					● ●	● ●	● ●	● ●	91						
RCD20W		20	●				● ●	● ●	● ●	● ●			● ●	● ●	● ●					● ●	● ●	● ●		91				3000 VDC	
RCD30W		30	●				● ●	● ●	● ●	● ●			● ●	● ●	● ●					● ●	● ●	● ●		92				2250 VDC	
RCD20U		20	●			9 – 75 14 – 160	● ●	● ●	● ●	● ●			● ●	● ●	● ●					● ●	● ●			88				3000 VDC	
RHM20W	1.6"x1"	20	●			36 – 160	● ●	● ●	● ●			● ●	● ●	● ●					● ●	● ●	● ●		90.5	3000 VAC	1.60	1.00	0.40		
RED20W	2"x1"	20	●			9 – 36 18 – 75 43 – 160	● ●	● ●	● ●			● ●	● ●						● ●	● ●			89	2250 VDC	2.00	1.00	0.40		
RED40W		40	●			9 – 36 18 – 75 36 – 160	● ●	● ●	● ●			● ●	● ●	● ●			● ●	● ●		● ●	● ●	● ●	93	3000 VDC					
RED60W		60	●			● ●	● ●	● ●	● ●			● ●	● ●	● ●			● ●	● ●		● ●	● ●	● ●	94	3000 VDC					
RHD40W		40	●			36 – 160	● ●	● ●	● ●	● ●			● ●	● ●	● ●					● ●	● ●			90				3000 VAC	
RED40U		40	●			9 – 75 14 – 160	● ●	● ●	● ●	● ●			● ●	● ●	● ●					● ●	● ●			90				3000 VDC	
QAE40U	1/4 Brick	40	●			9 – 75 14 – 160	●		●	● ● ● ●		● ● ● ●	● ●					● ●					91	3000 VAC 2250 VDC	2.28	1.45	0.50		
QAE60U		60	●				●		●	● ● ● ●		● ● ● ●	● ●					● ●										91	
QAE100U		100	●				●		●	● ● ● ●		● ● ● ●	● ●					● ●										90	
QAE100W		90	●			8.5 – 36 16.5 – 75	●		● ●	● ●		● ● ● ●	● ●			● ●							90						
QAE150W		132	●			40 – 160	●		● ●	● ●		● ● ● ●	● ●			● ●												90	

Series	Footprint	Output Power (W)	Input Ratio			Input Voltage (VDC)	Single Output Dual Output	Output Voltage														Eff. (%)	Isolation Voltage	Dimensions (Inch)				
			12:1/ 8:1	4:1	2:1			3.3 Vout	5.0 Vout	5.1 Vout	9.0 Vout	12 Vout	15 Vout	24 Vout	28 Vout	30 Vout	48 Vout	53 Vout	±5 Vout	±12 Vout	±15 Vout			±24 Vout	L	W	H	
HAE75W	1/2 Brick	75	●			9 – 36 18 – 75 43 – 160	●	●	●			●	●	●	●		●						91	3000 VAC 3000 VDC	2.40	2.28	0.50	
HAE100W		100	●			8.5 – 36 16.5 – 75 43 – 160	●	●	●			●	●	●	●		●						93					
HAE150W		182	●				●	●	●			●	●	●	●		●											91
HAE200W		240	●				●	●	●			●	●	●	●		●											91
HAE150U		150	●			16 – 160	●	●	●			●	●	●	●		●							92.5				3000 VAC
HAE200U		200	●				●	●	●			●	●	●	●		●							92				
URED20W	*Chassis	20	●			9 – 36 18 – 75 43 – 160		●	●			●	●							●	●		88	2250 VDC	4.00	2.25	0.75	
UFED40W		40	●			9.5 – 36 18 – 75 43 – 160		●	●			●	●	●						●	●	●	●	91				3000 VDC 1600 VDC
HAE75W-T	*Chassis	75	●			9 – 36 18 – 75 43 – 160		●	●			●	●	●	●		●						91	3000 VAC 3000 VDC	3.35	2.40	1.59	
HAE100W-T		100	●			8.5 – 36 16.5 – 75 43 – 160		●	●			●	●	●	●		●						93					
HAE150W-T		182	●				●	●			●	●	●	●		●	●											91
HAE200W-T		240	●				●	●			●	●	●	●		●	●											91
WAF150W	*Chassis Din-rail	150	●			9 – 36 18 – 75 43 – 160						●	●	●	●		●						89	3000 VDC 2250 VDC	3.86	2.56	0.67	
WAF300W		200	●			18 – 75 43 – 160							●	●	●	●		●						92	3000 VAC	6.00	4.00	1.52

*Chassis: Chassis mount



Series	Open Frame Enclosed Encapsulated Pin Connection Type	Output Power (W)		Input Voltage (VAC)	Single Output Dual Output Triple Output	Output Voltage														Eff. (%)	Leakage Current (µA)	Isolation Voltage (VAC)	Dimensions (Inch)		
		Con.	Peak			3.3 Vout	5.0 Vout	7.5 Vout	9.0 Vout	12 Vout	15 Vout	18 Vout	24 Vout	28 Vout	36 Vout	48 Vout	53 Vout	54 Vout	L				W	H	
MSC15	● ●	15	85 – 264	●	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	89	75	4000	2.82	1.14	0.82														
MSD30	● ●	30		●	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	91.5	100		3.95	1.50	1.00														
MSD40	● ●	40		●	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	93	75		4.30	2.20	1.20														
MSD65	● ●	65		●	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	93.5	75		4.30	2.20	1.20														
MAC15	●	15		●	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	89	75		2.61	1.00	0.62														
MAD30	●	30		●	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	91.5	100		3.34	1.36	0.77														
MAD40 Single	● ●	40		●	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	93	75		3.00	2.00	0.94														
MAD65 Single	● ●	65		●	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	93.5	75		3.00	2.00	0.94														
MAD40 Multi	● ●	40		● ● ●	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	90	75		3.50	2.00	0.98														
MAD65 Multi	● ●	65		● ● ●	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	90.5	75		3.50	2.00	0.98														
MAD100	● ●	100		●	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	92	75		3.00	2.00	1.16														
MAF150	● ●	150		●	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	92	100		4.00	2.00	1.16														
MAD180	● ●	180 220		●	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	94	100		3.00	2.00	1.24														
MAF300	● ●	300 360		●	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	93	100		4.00	2.09	1.26														
MAH450	● ●	450		●	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	94	100		5.00	3.00	1.58														



Series	Footprint	Output Power (W)	Input Ratio		Input Voltage (VDC)	Single Output	Dual Output	Output Voltage								Eff. (%)	Leakage Current (μA)	Clearance Creepage (mm)	Isolation Voltage	Dimensions (Inch)							
			4:1	2:1				3.3 Vout	5.0 Vout	5.1 Vout	9.0 Vout	12 Vout	15 Vout	24 Vout	±5 Vout					±12 Vout	±15 Vout	L	W	H			
MPU01	SIP-9	1			4.5 – 5.5 9.6 – 14.4 12 – 18 19.2 – 28.8	●	●	●	●			●	●		●	●	●	85	2	8	2MOPP 5000 VAC	0.77	0.49	0.39			
MPU02		2			4.5 – 7 9.6 – 14.4 12 – 18 19.2 – 28.8	●	●	●	●			●	●		●	●	●	84									
MPL02	SIP-8	2		●	4.5 – 12 9 – 18 18 – 36	●	●	●	●			●	●		●	●	●	85							0.86	0.39	0.40
MPS02	SMD-16 DIP-16	2		●	4.5 – 12 9 – 18	●	●	●	●		●	●	●	●		●	●	82							0.95	0.57	0.40
MPS04 MPH04		3.5		●	18 – 36 36 – 75	●	●		●		●	●	●	●		●	●	83									
MPP03	DIP-24	3		●	4.5 – 9 9 – 18 18 – 36 36 – 75	●	●	●	●			●	●	●	●	●	●	87							1.25	0.80	0.40
MPP06		6		●		●	●	●	●			●	●	●	●	●	●	89									
MPK06		6		●		●	●																				
MPP10		10		●		●	●	●	●			●	●	●	●	●	●	89									
MPP03W		3		●	9 – 36 18 – 75	●	●	●	●			●	●	●	●	●	●	87									
MPP06W		6		●		●	●	●	●			●	●	●	●	●	●	89									
MPP10W		10		●		●	●	●	●			●	●	●	●	●	●	89									
MPM15		1.6"x1"	15			●	9 – 18 18 – 36 36 – 75	●	●		●			●	●	●	●	●				●	90				
MPM20	20			●	●	●		●			●	●	●	●	●	●	90										
MPM15W	15			●	9 – 36 18 – 75	●	●		●			●	●	●	●	●	●	89.5									
MPM20W	20			●	●	●		●			●	●	●	●	●	●	●	89									
MPD30	2"x1"	30		●	9 – 18 18 – 36 36 – 75	●	●		●			●	●	●	●	●	●	90.5							2.00	1.00	0.40
MPD30W		30		●	9 – 36 18 – 75	●	●		●			●	●	●	●	●	●	90.5									
MPQ60W	1/4 Brick	60		●	9 – 36 18 – 75	●	●		●	●		●	●	●		●	●	92.5	4.5	8		2.28	1.45	0.50			



World Headquarters



P-DUKE Technology Co., Ltd.
 NO.36, 22nd Rd., Taichung Industrial Park, Taichung,
 40850, Taiwan, R.O.C
 TEL:+886-4-2359-0668
 FAX:+886-4-2359-1337
 E-MAIL:sale@pduke.com
 WEB:www.pduke.com

U.S.A Subsidiary

P-DUKE Technology, Inc.
 717 Brea Canyon Road, Suite#1 Walnut, CA 91789
 TEL:+1-909-5985000
 FAX:+1-909-5985705
 E-MAIL:sale-usa@pduke.com

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